

SEQUENCE LISTINGS

- <110> National Cancer Center et al
- <120> Neutralizable epitope of HGF and neutralizing antibody binding to same
- <130> PCA31170-NCC
- <160> 35
- <170> KopatentIn 1.71
- <210> 1
- <211> 38
- <212> DNA
- <213> Artificial Sequence
- <220>
- <223> Vkappa 5' sense primer RSCVK1

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- <210> 2
- <211> 38
- <212> DNA
- <213> Artificial Sequence

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<223> Vkappa 5' sense primer RSCVK2

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- <210> 3
- <211> 38

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<223> Vkappa 5' sense primer RSCVK3

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<211> 42

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<223> Vkappa 3' reverse primer RHybK1-B

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42

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<211> 42

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<223> Vkappa 3' reverse primer RHybK2-B

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42

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42

<210> 7

<211> 40

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<223> V lambda 5' sense primer RSC lambda 1

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40

<210> 8

<211> 45

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<213> Artificial Sequence

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<223> V lambda 3' reverse primer RHybL-B

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45

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<211> 42

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<223> VH 5' sense primer RHyVH1

<400> 9

gctgccaac cagccatggc ccagtcggtg gaggagtccr gg

42

<210> 10

<211> 42

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42

<210> 11

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> VH 5' sense primer RHyVH3

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42

<210> 12

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44

<210> 13

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> VH 3' reverse primer RHylgGCH1-B

<400> 13

cgatgggccc ttggtggagg ctgargagay ggtgaccagg gtgcc

45

<210> 14

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Sense primer HKC-F for amplification of the human Ckappa region and the pelB leader sequence from a cloned human Fab

<400> 14

cgaactgtgg ctgcaccatc tgtc

24

<210> 15

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer Lead-B for amplification of the human Ckappa region and the pelB leader sequence from a cloned human Fab

<400> 15

ggccatggct ggttgggcag c

21

<210> 16

<211> 24

<212> DNA

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<223> Sense primer HlgGCH1-F for amplification of the human CH1 Chain from a cloned human Fab

<400> 16

gcctccacca agggcccatc ggtc

24

<210> 17

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer dpseq for amplification of the human CH1 Chain from a cloned human Fab

<400> 17

agaagcgtag tccggaacgt c

21

<210> 18

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Sense primer RSC-F for PCR assembly of rabbit VL sequences with the human Ckappa PCR Product

<400> 18

gaggaggagg aggaggaggc ggggccagg cgccgagct c

41

<210> 19

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Sense primer LeadVH for PCR assembly of rabbit VH sequences with the human CH1 PCR product

<400> 19

gctgcccaac cagccatggc c

21

<210> 20

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer dp-EX for PCR assembly of chimeric light-chain sequences with chimeric heavy-chain (Fd) sequences

<400> 20

gaggaggagg aggaggagag aagcgtagtc cggaacgtc

39

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> sequencing primer

<400> 21
agaaacacaa agtctacgcc 20

<210> 22
<211> 20
<212> DNA
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<223> sequencing primer

<400> 22
gttgggcagc gagtaataac 20

<210> 23
<211> 348
<212> DNA
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<220>
<223> nucleotide sequence encoding VH region of clone 61

<400> 23
caggagcagc tgatggagtc cgggggtcgc ctggtcaatc ctggcgaatc cctgacactc 60
accitgcaaag cctctggatt caccttcagt agctactaca tgagctgggt cogccaggct 120
ccaggggaagg ggctggagtg gatcggatac attggtacta gtagtggtac cacttactac 180
gcgaactctg tgaagggccg attaccatc tccagcgaca acgcccagaa taccttattt 240
ctgcgaatga ccagtcctcac agactcggac acggccacct atttctgtgc aagagggctg 300
ggcagaatca acttgtgggg ccaggcacc ctggtcaccg tctcttca 348

<210> 24
 <211> 327
 <212> DNA
 <213> Artificial Sequence

<220>

<223> nucleotide sequence encoding VL region of clone 61

<400> 24
 gagctcgtgc tgaccagac tccatcctct atgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc aggccagtca gagtgttagc aactacttag cctggatatca gcagaaacca 120
 gggcagcctc ccaagctcct gatctacagg gcatccactc tggcatctgg ggtcccatcg 180
 cgtttcagcg gcagtggatc tgggacagag ttactctca ccatcagtgg catgaaggct 240
 gaagatgctg ccacttatta ctgtcaaagt gggtattata gtgctgggtgc gacttttggg 300
 ggtggcacca atgtggaaat caaacga 327

<210> 25
 <211> 348
 <212> DNA
 <213> Artificial Sequence

<220>

<223> nucleotide sequence encoding VH region of clone 68

<400> 25
 cagcagcagc tggtaggtgc cgggggtcgc ctggtaaatc ctggcgaatc cctgacactc 60
 acctgcaaag cctctggatt caccttcagt acctactaca tgagctgggt ccgccaggct 120
 ccagggaagg ggctagagtg gatcggatac attggtacta gtagtgggtac cacttactac 180
 gcgaactctg tgaagggccg attcaccatc tccagcgaca acgcccagaa taccgtatit 240

ctgcaaatga ccagtcctgac agactcggac acggccacct atttctgtgc aagagggctg 300

ggcagaatta acttgtgggg cccaggcacc ctggtcaccg tctcctca 348

<210> 26

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding VL region of clone 68

<400> 26

gagctcgatc tgaccagac tccatcctct gtgtctgcag ctgtgggagg cacagtcacc 60

atcaattgcc aggccagtc gagtgtagc aacctcttag cctggatca gcagaaacca 120

gggcagcctc ccaagctcct gatttatggt gcatccaatc tggaatctgg ggtcccatcg 180

cgtttccgtg gcagtggatc tgggacagag ttcactctca ccatcagtgg catgaaggct 240

gaagatgctg ccacttatta ctgtcaaagt gggtattata gtgctggtgc gacttttggg 300

gctggcacca atgtggaaat caaacga 327

<210> 27

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence of VH region of clone 61

<400> 27

Gln Glu Gln Leu Met Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu

1

5

10

15

Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe
 65 70 75 80

Leu Arg Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys
 85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val
 100 105 110

Thr Val Ser Ser
 115

<210> 28
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amino acid sequence of VL region of clone 61

<400> 28
 Glu Leu Val Leu Thr Gln Thr Pro Ser Ser Met Ser Ala Ala Val Gly
 1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala
 65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly
 85 90 95

Ala Thr Phe Gly Gly Gly Thr Asn Val Glu Ile Lys Arg
 100 105

<210> 29

<211> 116

<212> PRT

<213> Artificial Sequence

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<223> amino acid sequence of VH region of clone 68

<400> 29

Gln Gln Gln Leu Val Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu
 1 5 10 15

Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Thr Tyr
 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe
 65 70 75 80

Leu Gln Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys
 85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val
 100 105 110

Thr Val Ser Ser
 115

<210> 30

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence of VL region of clone 68

<400> 30

Glu Leu Asp Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
 1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Leu
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Arg Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala
 65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly
 85 90 95

Ala Thr Phe Gly Ala Gly Thr Asn Val Glu Ile Lys Arg
 100 105

<210> 31

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> sequencing primer

<400> 31
ccctcatagt tagcgtaacg

20

<210> 32
<211> 12
<212> PRT
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<220>
<223> neutralizable epitope of HGF

<400> 32
His His Pro His Phe Lys Pro Val Ser Asn Ser Arg
1 5 10

<210> 33
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> neutralizable epitope of HGF

<400> 33
Lys Ser Leu Ser Arg His Asp His Ile His His His
1 5 10

<210> 34

<211> 36
<212> DNA
<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding SEQ. ID. No. 32

<400> 34
catcatccgc attttaagcc tgtgtctaata agtcgt

36

<210> 35
<211> 36
<212> DNA
<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding SEQ. ID. No. 33

<400> 35
aagtctctta gtcggcatga tcatattcat catcat

36